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Sequence Listing
<110> Universitaet Leipzig
<120> Method and Means for the Determination of Defined States or
Modifications in the Mucus of the Uterus or in the Epithelium of Other
Organs
<130> 401P07PCT-US
<140> 10/559,406
<141> 2006-05-30
<150> PCT/DE04/01210
<151> 2004-06-04
<150> DE10325639.3
<151> 2003-06-06
<150> DE10325638.5
<151> 2003-06-06
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<223> Epitope e-beta-9 (e-beta-hCG)
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Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Eys Ala
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<210> 2
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<213> artificial sequence
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<223> Epitope beta-9 (t?hCG)
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<400> 3

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
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<210> 3 <211> 15 <212> PRT

<220>

<213> artificial sequence

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<213> artificial sequence
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Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
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       5
<211>
      861
<212>
      DNA
<213> homo sapiens
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<223> beta-hCG beta-7 cDNA-Sequenz
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actgagtote agaggteact teacegtggt etecgeetea teettggege tagaceactg
                                                                    380
aggggagagg actggggtgc teegetgage eactcetgtg ecteeetggc ettgtetaet
                                                                    240
totogoooco ogaagggtta gtgtocagot cactocagoa tootacaaco tootggtggo
                                                                   300
ottgacycoc ccacaaaccc gaggtataaa gccagytaca ccayycaggy yacgcaccaa
                                                                   360
ggatggagat gttocagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg
                                                                    420
catocaagga gatgottogg coacggtgoo gooccatoaa tgocaccotg gotgtggaga
                                                                    480
                                                                    540
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ccatgacccg ogtgetgeag ggggteetge eggeeetgee teaggtggtg tgeaactace
                                                                    660
gogatytgog ottogagtod atooggotoo otggotgood gogoggogty aacoodgtyg
                                                                    720
totectacgo ogtggotote agotgteaat gtgeactotg oegoogoage accastgact
gegggggtoc caaggaceas cootigacet gigatgacee eegetbeeag geolectett.
                                                                    780
                                                                    840
cotoaaaygo cootococco ayoottocaa gtocatocog actocogggg cootoggaca
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ccccgatcct cccacaataa a
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<213> homo sapiens
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<223> beta-hCG beta-6 cDNA-Sequenz
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                                                                    120
actyagitte agaggitaet teaccyiggi eteogettea teetiggege tagaceacig
aggggagagg actggggtgc teegetgage cacteetgtg cetecetgge ettgtetact
totogococo ogaagggtta gtgtogagot cactocagoa tootacaaco tootggtggo
ottgccgccc ccacaacccc gaggtatgaa gccaggtaca ccaggcaggg gacgcaccaa
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                                                                    420
catecaagga gecaettegg coaeggtgee geceeateaa tgecaecetg getgtggaga
                                                                    480
aggagggetg cocceptgtgc atcacceptca acaccaccat otestgccege tactgcccca.
                                                                    540
ccatgacccg ogtgotgcag ggggtootgc oggoootgco toaggtggtg tgcaactacc
                                                                    600
                                                                    660
gogatging ottogaqtoo atcongotoc ottgoingcoo gogongoning aaccooning
totootacgo ogtggetoto agetytoaat gtycactety cogeegoago aceaetgaet
                                                                    720
gegggggtoe caaggaceae coottgaeet gtgatgaeee cegetteeag geetectett
                                                                    780
octoamaggo doctococca agoottocam gtocatocog actocogggg cootoggaca
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eccegateet eccacaataa a
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<213> homo sapiens
<22285
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aggggagagg actggggtgd toogotgago bactcotgtg detocotggd ottgtdtact
totogococo ogazgogita gigiosagoi caciocagoa tociacaaco tociqqiqqo
obtgmogodo ccacaamodo gaggtatraa godaggtada ccaggdaggg gadgdaccaa
qqatqqaqat qttccaqqqq ctqctqctqt tqctqctqct qaqcatqqqc qqqacatqqq
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aggagggetg cocceptetec atcacceptea acaccaccat objetecege tactecocca
ccatgacccy ogtgetgcag ggggtcotge cggccctgcc tcaggtggtg tgcaactacc
gogatgtgog ottogagtod atcoggotod otggotgodd gogoggogtg aaccoogtgg
totootacgo ogtggetete agetyteaat gtycactety cogeogoago accaetyact
gegggggtee caaggaceae coettgacet gtgatgaeee eegetteeag geoteetett
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      1.65
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      PRT
<213>
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<2230>
<223> t-beta-hCG beta-5, beta-8, beta-3 (prehormone)
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-20
                    -3.5
Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Fro Arg Gly Val
Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
                                                    90
Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
                            100
                                                105
Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro
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80

120

180

240

300

360

420

480

540

600

660

720

780

840

861

<210>

7

110 115 120

Pro Fro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr 125 130 135 140

Pro Ile Leu Pro Gln 145

<210> 9

<211> 165

<212> PRT

<213> homo sapiens

<220>

<223> beta-hCG beta-7 (prehormone)

<400> 9

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly -20 -15 -10 -5

Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Fro Arg Cys Arg Fro Ile
-1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val 30 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg 45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val 65 70 75

Asn Fro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu 80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu 95 105

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Pro Fro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr 125 130 135 140

Pro Ile Leu Pro Gln

<210> 10

<211> 165

<212> PRT

<213> homo sapiens

<220>

<223> e-beta-hCG beta-6e (with Arg in Pos 2) (prehormone)

<400> 10

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly -20 -15 -10 -5

Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile
-1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Fro Val Cys Ile Thr 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val 30 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg 45 50 55 60

Asp Val Arg Fhe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val 65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu 80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu 95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Lys Ala Pro 110 115 120

Pro Fro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr 125 130 135

Pro Ile Leu Pro Gln 145

<210> 11

<211> 141

<212> PRT

<213> homo sapiens

>220>

<223> beta-LM beta-4 (prehormone)

<400> 11

Met Glu Met Leu Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly -20 -15 -10 -5

Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Fro Val Cys Ile Thr 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val 30 40

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Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg
                    50
Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro
                               85
Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu
                          100
Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu
   110
                      115
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<212> PRT
<213> artificial sequence
<223> Peptide Pl (e-beta-hCG)
<400> 12
Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser
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<211> 10
<212> PRT
<213> artificial sequence
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<223> Peptide K1 (t-beta-hCG)
<400> 13
Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser
1 5
<210> 14
<211> 11
<212> PRT
<213> artificial sequence
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<223> Peptide P2 (e-beta-hCG)
Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro
<210> 15
<211> 11
<212> PRT
<213> artificial sequence
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<223> Peptide K2 (t-beta-hCG)
<400> 15
Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro
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